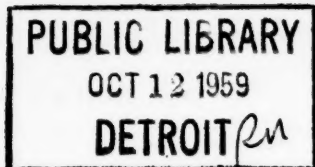


TECHNOLOGY  
JOURNAL



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Vol. 38, No. 9  
SEPTEMBER, 1959

# SUPPLEMENT

THE INSTITUTION OF PRODUCTION ENGINEERS, 10 CHESTERFIELD STREET, MAYFAIR, LONDON, W.1

## THE ANNUAL DINNER-1959

The Institution's Annual Dinner, 1959, will be held in the

**Dorchester Hotel, London**

on

**Thursday, 19th November, 1959**

Tickets, price £3 5s. 0d. each (excluding wines), may be ordered on the form overleaf. Owing to limited accommodation, it is not possible to have lady guests. Tickets and table places for members and gentlemen guests will be allocated in strict order of receipt of applications. Seating will be at round tables of 10 persons.

### PLEASE NOTE

No applications for tickets received after **Tuesday, 3rd November**, will be accepted.

## THE 1959 E. W. HANCOCK PAPER

Members are advised that The 1959 E. W. Hancock Paper will be presented on **Monday, 12th October, 1959**, at **The University of Bristol**. The speaker will be **Mr. R. A. Banks**, Personnel Director, Imperial Chemical Industries Limited, the subject of the Paper being :

### "HUMAN RELATIONS IN INDUSTRY"

The Paper will be followed by open discussion, and the Chair will be occupied by **Mr. Harold Burke**, Vice-President of the Institution.

Admission to the meeting will be by ticket only, which may be obtained from: The Secretary, The Institution of Production Engineers, 10 Chesterfield Street, Mayfair, London, W.1, using the form of application overleaf.

# THE ANNUAL DINNER, 1959

FROM (Please use block letters)	Date received at I.Prod.E.
	Receipt sent:
	Ticket(s) sent:

To: THE SECRETARY,  
THE INSTITUTION OF PRODUCTION ENGINEERS,  
10 CHESTERFIELD STREET,  
LONDON, W.1.

Please send me a ticket for myself and.....tickets for my guests whose names are given below:

Names of guests

Titles, honours and decorations

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(additional names may be entered on separate slip)

If possible, I should like to sit at the same table as, or adjacent to, the following members:

.....

I enclose remittance for £ : : (..... tickets(s) at £3 5s. 0d. each).

N.B.—Cheques, etc., should be crossed and made payable to the Institution of Production Engineers.

To: The Secretary,  
The Institution of Production Engineers,  
10 Chesterfield Street,  
London, W.1.

## THE 1959 E. W. HANCOCK PAPER at The University of Bristol, 12th October, 1959, at 6.30 p.m.

Please send me, when available, .....ticket(s) of admission to the above meeting.

Please NAME.....

use ADDRESS.....

Block .....

Letters .....

## **SOUTH EASTERN REGION GRADUATE PRIZE**

The South Eastern Region Committee announce that they received four entries for the 1958-59 Competition, from the following Graduates:

G. S. Cheeswright; B. W. Jenney; D. B. Richardson; I. M. L. Ward.

The prize winner was I. M. L. Ward, who is Personal Assistant to the General Works Manager of Marconi's Wireless Telegraph Company Ltd.

The South Eastern Region Committee are again running a Competition on similar lines this year, the regulations being as follows:-

1. The Prize is known as the South Eastern Region Graduate Prize.
2. The Prize will be £25; in addition, a certificate will be presented as a permanent memento of the award.
3. All Graduates and Students of the South Eastern Region of the Institution may compete.
4. Papers may be submitted on any subject within the field of Production Engineering.
5. Application forms may be obtained from:-  
The Institution of Production Engineers, 10 Chesterfield Street, Mayfair, London, W.1.  
and should be completed and returned by 30th September, 1959.
6. Papers should not be less than 2,000 nor more than 6,000 words in length.
7. Although it is preferable that Papers are typewritten, they may be submitted in the candidate's own handwriting.
8. Completed Papers must be submitted by the 30th NOVEMBER, 1959, and should be sent to:-  
The Institution of Production Engineers, 10 Chesterfield Street, Mayfair, London, W.1, the envelope being marked "South Eastern Region Graduate Prize".
9. Papers submitted for the Prize will be assessed under the following headings:-
  - (i) Evidence given of the importance of the subject to production;
  - (ii) Content (technical or managerial), including originality of subject;
  - (iii) Planning (logical development of the subject);
  - (iv) Style;
  - (v) References, illustrations, charts, graphs, etc.
10. The Committee reserve the right to examine applicants orally in the subject of their Paper.
11. The Committee reserve the right not to make an award if they consider no Paper submitted is of the required standard.

## **SOUTH EASTERN REGION DINNER-DANCE**

The South Eastern Region will hold their Annual Dinner-Dance on **Friday, 27th November, 1959**, at the **Savoy Hotel, London**.

Tickets, price £2 10s. 0d. each, may be obtained from: Miss M. Miles, Room 741B, Marconi's Wireless Telegraph Company Ltd., Chelmsford, Essex.

## **BIRMINGHAM SECTION BUFFET-DANCE**

To open the season the Birmingham Section are holding a Grand Buffet-Dance, on **Saturday, 24th October, 1959**, at the **Grand Hotel, Birmingham**. Tickets (members, ladies and friends) price 24s. 0d. each, may be obtained from Mr. H. W. Lawton, Section Social Secretary, c/o Henry W. Lawton Ltd., Dudley Road East, Oldbury, Birmingham. Tel: BRO 2541 - 2.

## **COVENTRY SECTION DINNER-DANCE**

The Coventry Section of the Institution will hold their Annual Dinner-Dance on **Friday, 9th October, 1959**, at the **Masonic Hall, Little Park Street, Coventry**. The reception will be at 7.30 p.m. for Dinner at 8 p.m. Dancing will take place until 1 a.m., and a licence has been obtained until midnight.

Tickets, price 32s. 6d. each, may be obtained from any member of the Section Committee, or from Mr. W. P. Gill, c/o S. Gill & Sons (Engineers) Ltd., Lythalls Lane, Coventry.

## **I.PROD.E./B.I.M. PRODUCTION CONTROL STUDY GROUP**

The Institution of Production Engineers jointly with The British Institute of Management are arranging a Production Control Study Group. The meetings are designed to allow general managers, production managers and production controllers to meet and discuss various aspects of production control. It is intended that the Group will meet for a series of eight afternoons at weekly intervals, commencing on **Tuesday, October 27th, 1959**, at 10 Chesterfield Street, Mayfair, London, W.1.

The fee for the course is £8 0s. 0d. and full details of the programme may be obtained from:

The Secretary,  
The Institution of Production Engineers,  
10 Chesterfield Street,  
Mayfair, London, W.1.

## SECTION MEETINGS

*Visitors Tickets may be obtained from Section Honorary Secretaries*

### SEPTEMBER, 1959

#### EAST & WEST RIDINGS REGION

**Halifax & Huddersfield** 6.30 p.m. September 24th  
Evening Visit to T. S. Harrison & Sons Ltd., Union Street, Heckmondwike.  
**Sheffield Graduate** 6.45 p.m. September 14th  
Rothervale Manufacturing Co., Ltd., Woodhouse Mill, Nr. Sheffield.  
"Production Joinery". An insight into the methods of production used in the woodworking industry.

#### MIDLANDS REGION

**Coventry Graduate** 6.45 p.m. September 7th  
Works Visit  
"Specialised Manufacture of Vertical Turning and Boring Mills", Webster & Bennett, Northey Road, Coventry.  
**Shrewsbury** 7.30 p.m. September 30th  
Shrewsbury Technical College,  
"Uses and Developments of Work Study", by W. C. Castledine, M.I.Prod.E.  
**Wolverhampton Graduate** 2 p.m. September 17th  
Works Visit  
Joseph Lucas Ltd., Great King Street, Birmingham.

#### NORTH MIDLANDS REGION

**Nottingham** 7 p.m. September 16th  
Evening Visit to Swift & Wass Ltd., Lace Machine Manufacturers, Basford, Nottingham.  
**Loughborough College Student Section** 2 p.m. September 30th  
Afternoon Visit to J. Lucas Ltd., S. Block Restaurant, Farm Street, Hockley, Birmingham.

#### NORTH WESTERN REGION

**Liverpool Graduate** 7.30 p.m. September 9th  
Lecture Hall of the Y.M.C.A., Mount Pleasant, Liverpool.  
"Quality Control", by W. MacCrimmon.

#### SOUTH EASTERN REGION

**London Graduate** 7.15 p.m. September 9th  
10 Chesterfield Street, Mayfair, London, W.1.  
"Why not Tool in Plastics", by P. G. Pentz, B.Sc.  
**Luton Graduate** 8.30 a.m. September 5th  
Works Visit. Rendezvous: Luton Station.  
British Railway Locomotive Works, Derby, at 10.30 a.m.

### OCTOBER, 1959

#### NORTH MIDLANDS REGION

**Leicester** 7.15 p.m. October 8th  
Evening Visit to the Imperial Typewriter Co. Ltd., East Park Road, Leicester, followed by a lecture. "The Production Control System at the Imperial Typewriter Co.", by B. S. Pears.  
**Nottingham** 7 p.m. October 7th  
The Reform Club, Victoria Street, Nottingham.  
"The Use of Plastics for making Jigs, Tools and Moulds", by P. G. Pentz, B.Sc.

#### SOUTH EASTERN REGION

**London, Brighton Group** 7 p.m. October 7th  
The Old Ship Hotel, Brighton.  
"Nylon and the Production Engineer", by E. M. Elliott, A.M.I.E.E., A.M.I.Prod.E.

## PRODUCTION APPOINTMENTS

**BULLETIN No. 72**  
**SEPTEMBER 1959**

The last date for receiving material for insertion in the following month's bulletin is the 20th of each month, and cancellations cannot be accepted after this date. Correspondence should be addressed to: The Publications Department, The Institution of Production Engineers, 10 Chesterfield Street, Mayfair, London, W.1 (Telephone: GROsvenor 5254).

**RATES — Run-on, per appointment:** £4 4s. 0d. up to 100 words; £1 1s. 0d. for each additional 100 words or part thereof. Special rate for firms affiliated to the Institution, technical colleges and universities: £2 2s. 0d. per appointment up to 100 words, and 10s. 6d. for each additional 100 words or part thereof.

**Displayed:** £6 per single-column inch (column width 3¼ in.). Special rate for firms affiliated to the Institution, technical colleges and universities: £5 10s. 0d. per single-column inch.

Advertisers are advised that better response is likely if, in addition to essential qualifications, the following information is given:

(a) Location of appointment; (b) Status in the organisation and scope of promotion; (c) Salary range and age range. Advertisers are asked to advise the Institution when appointments are filled. The Institution reserves the right to refuse or withdraw any announcement and also to make any alteration in the wording to ensure conformity with the Institution standards. Members interested in the following appointments should make application in accordance with the terms of notice. No correspondence can be undertaken by the Secretary other than the forwarding of replies to Box Nos.

**Junior Production Engineer** — An opportunity for progressive development to a senior position for an engineer 25-30 years of age, to join a well-known London company and undertake responsibility for production engineering and control. Qualifications are a sound workshop experience in light precision engineering including press tooling and light assembly. A knowledge of work study would be an advantage. Replies which will be treated in strict confidence to: Production Engineering, Ltd., Technical Division, Park House, Wick Road, Egham, Surrey.

**Work Study Engineer** required for work in the Watford area. Applicants should have at least three years' experience in work measurement, methods and incentive schemes. Experience in sheet metal working and fabrication, for jobbing and small batch production is desirable. Excellent conditions and prospects, contributory pension scheme, canteen facilities, etc. Please reply, in strictest confidence, stating age, experience and present salary to: The Works Manager, Wild-Barfield Electric Furnaces Limited, Otterspool Way, Watford-By-Pass, Watford.



**Production Engineer.** Applications are invited for the new post of Production Engineer at H. Massil & Sons (Wood-turners) Ltd., Welham Green, Hatfield, Herts. The successful candidate will be directly responsible to the Managing Director for all engineering functions of the Company. As such he will supervise the Works Engineer but will devote most of his time to the development of improved production and handling methods. Applicants should be corporate members of the I.Mech.E., or the I.Prod.E., with past experience in methods development work. Knowledge of woodworking will be an advantage but is not essential. Apply in confidence to: The Managing Director, at the above address.

### DESIGNER DRAUGHTSMEN

for work on  
Machine Tool Design and Development  
are required by  
**THE NEW DEVELOPMENT  
&  
PROCESS DEPARTMENT  
ENGLISH ELECTRIC, RUGBY**

Applicants should be of H.N.C. standard and have served a recognised apprenticeship, leading to experience of machine tool or jig and tool drawing office work. Please write giving full details to Dept. C.P.S. Marconi House, 336 - 7 Strand, London, W.C.2, quoting reference PE 1199T.

**Superintendent** required by medium sized Midland engineering company to control department of 200 employees operating bar automatics, capstans, secondary operation machines and allied processes. Should hold H.N.C. or superior qualification and have experience in departmental management with the type of machinery mentioned; age 35-45. Salary according to experience and qualifications; non-contributory staff pension scheme. Write giving full details of experience, qualifications and salary to: Appointment No. 63, Associated Industrial Consultants Ltd., Bush House, Aldwych, London, W.C.2.

**Process Planning Engineers.** Company engaged in the manufacture of light electrical equipment. The applicants must have experience of press work, moulding, machine shop and general engineering practice. Salary according to experience. Applications outlining details of qualifications, experience and present salary to: Personnel Manager, N.S.F. Ltd., Ingrow Bridge Works, Keighley, Yorkshire.

### THE METAL BOX COMPANY

requires a

#### HEAD OF QUALITY CONTROL

for its Paper Group factory at MERTON

Applicants must have H.N.C. or Inter B.Sc., in Maths., Physics and/or Chemistry and previous factory experience. Preferred age up to 30. Training will be given in Quality Control methods.

\* \*

Apply to:

**STAFF DIVISION, THE METAL BOX COMPANY LTD., 37 BAKER STREET, LONDON, W.1, quoting Ref. PAQ/5.**

VACANCIES occur in a Cycle Manufacturing Company, near Delhi, India, employing 2,000 people, for the following posts:-

1. **WORKS MANAGER:** Salary £2,500 - £3,000 per annum or higher to particularly well qualified person. Free furnished house. Low Income Tax. Must be experienced in managing a Company which has similar processes for mass production.
2. **METHODS ENGINEER:** Salary £1,750 - £2,000 per annum or higher to particularly well qualified person. Free furnished house. Low Income Tax. Must be experienced in method improvement, works simplification. Shop lay-out, work flow, etc., for large quantity production.
3. **PRODUCTION ENGINEER:** Salary £1,750 - £2,000 per annum or higher to particularly well qualified person. Free furnished house. Low Income Tax. Must be experienced in organising an efficient system of production control. Should be capable of co-ordinating different Sections engaged on mass production.

In all the three cases cycle manufacturing experience is desirable.

For further information and an application form, please apply by Airmail stating age, qualifications and previous experience to the **Works Director, The Atlas Cycle Industries Limited, SONEPAT, PUNJAB, INDIA.** Applications will be treated in strict confidence.

**Production Engineers. Excellent prospects — interest — variety — good salary.** These are offered by a progressive and expanding Company in West Middlesex, engaged in the manufacture of a wide range of light electro-mechanical products. Vacancies exist for high grade Production Engineers with experience of planning projects for production, and/or tool production and design. Preference will be given to candidates of 25-35 years of age holding H.N.C. or the equivalent. Apply in writing, giving full details to: Box No. 1871, I.Prod.E., 10 Chesterfield Street, Mayfair, London, W.1.

**Senior Production Engineer** required for large engineering works in Glasgow, to take control of production engineering department. Fully experienced in manufacturing methods and refixing covering machining, fitting, fabricating, and welding, as applied to medium/heavy engineering products. Must have held previous similar position. This is a senior staff appointment, providing scope for promotion. Higher National Certificate in Production Engineering or equivalent. Apply to: (PD) Box No. 1876, I.Prod.E., 10 Chesterfield Street, Mayfair, London, W.1.

**Production Engineer** required for an old established brass and copper tube mill, Birmingham area. Applications are invited from qualified Production Engineers around 35 years of age who have shop management experience covering work study, production planning and control, materials handling and machine loading, and who possess a sound practical knowledge of modern non-ferrous tube production. Prospects for advancement, pension scheme, etc. Our staff are aware of this vacancy. Reply to: Company Secretary, stating qualifications, experience and present salary. Box No. 1874, I.Prod.E., 10 Chesterfield Street, Mayfair, London, W.1.

## WARNER SWASEY ASQUITH LIMITED

### ★ TOOLING ENGINEER

A new Anglo-American company, about to build a world-renowned range of single spindle chucking automatics, requires a Senior Tooling Engineer.

The successful applicant will be required to head a department specialising in the design and tooling of equipment for these machines to produce customers' components, and this department will also make time studies and determine competitive production times.

Candidates should be prepared to proceed to the Cleveland Works of The Warner and Swasey Company for specialised training lasting several months.

Apply in writing, giving particulars of experience, age and salary required to:-

Canal Works, Water Lane, Halifax, Yorkshire.

**CHIEF ENGINEER** required in the Birmingham area to take charge of the Engineering and Development Departments. Experience in design of equipment for the catering and allied trades is necessary; failing this, however, experience in the design of machine tools, involving the use of electric motors, gear boxes and associated components, would be considered.

Superannuation Scheme in operation.

Apply in strict confidence to the **General Manager, Peerless & Ericsson Ltd., 1 Carlisle Road, The Hyde, London, N.W.9,** giving full details of experience, qualifications and present salary.

**Works Manager and Production Engineer** are required by a small instrument manufacturing company which prides itself in manufacturing to the highest standards. **Essential qualifications** are sound practical experience of instrument practices, preferably experience of Swiss automatics and gear hobbing, and some formal technical qualifications. The vacancies offer scope for young men, with ideas and initiative to join an energetic team in an expanding organisation. **Works Manager**—salary £1,050 - £1,400, age limit 45. **Production Engineer**—salary £850 - £1,300, age limit 40. Pension schemes. Factory is situated 35 miles North of London. Apply in strict confidence to: Box No. 1875, I.Prod.E., 10 Chesterfield Street, Mayfair, London, W.1.

## THE DE HAVILLAND ENGINE CO. LTD.

requires for its new

**INDUSTRIAL PRODUCTS DIVISION**  
the following:

—○—  
**Work Study Engineer** with experience in light engineering to be responsible for all aspects of work study including time standards, methods and shop costs control. H.N.C. standard minimum.

—○—  
**Senior Planning Engineer** with experience in machine shop process planning for commercial work.

—○—  
**University Graduate** with a minimum of two years industrial experience in work study or production engineering.

—○—  
Applications should give full details of qualifications and experience and be addressed to:

—○—  
The Personnel Officer,  
The De Havilland Engine Company Limited,  
Leavesden, Near Watford, Herts.

**Production Manager.** A new company establishing its first factory in Greater London to wash, process and package potatoes, and ultimately other produce, for the rapidly developing prepackaged fresh fruit and vegetable market, require in November a Production Manager. The appointment carries the full responsibility for the operation of a six ton per hour production unit, together with its development. Applicants must be capable of instituting and carrying out stock control, production costings, improved methods of handling and production, and the management of some 30 - 40 operatives. The position is a key one. The successful candidate is likely to have appropriate professional qualifications, to have been the assistant production manager to a larger concern or to have had some similar practical experience: age 26 - 35 and a man looking for opportunity in a new well-backed venture rather than a high starting salary. Commencing salary £800 - £1,000. Applications giving personal history, qualifications, experience, and present salary, to be submitted by 21st September, and marked "Production Manager" to: B. de V. Hardcastle Burton & Co., Coventry House, South Place, London, E.C.2.

## OPPORTUNITIES FOR YOUNG PRODUCTION ENGINEERS

with  
**F. PERKINS LIMITED, PETERBOROUGH**  
as

- 1. METHODS ENGINEER** for work in connection with production of major and minor components for high speed diesel engines. Applicants should have had previous experience and preferably have O.N.C. or H.N.C. but we are willing to consider you if you feel you have equivalent practical experience.
- 2. PLANT LAYOUT ENGINEER** should be component draughtsman with previous planning experience of engine component, machining and assembly.

Applications should be addressed to the Personnel Manager, giving full details of experience and qualifications, and state clearly for which position you are applying. Pension Scheme in operation. Five day week. Canteen.

**Jig and Tool Designer/Draughtsman/Engineer.** Challenging opportunity for capable man over 25 able to design and detail economically jigs, fixtures, tools, press tools, etc., around component drawings. Should be able to prepare machining layouts for clients and supervise manufacture of tools in small trade jobbing shop, rapidly expanding. Must be practical man with some supervisory machine shop experience and administrative ability. Technical training to O.N.C. standard, Grad.I.Prod.E., preferred. Tonbridge, Kent. Starting salary £800 - £850 per annum, according to experience, with very rapid prospects on showing results. Initially 44 hour week with overtime as required. Staff conditions. Full details to: Box No. 1872, I.Prod.E., 10 Chesterfield Street, Mayfair, London, W.1.

**Estimator/Planning/Progress Engineer** required by small rapidly expanding contract firm Kent, 35 miles London. At least O.N.C., preferably H.N.C. Production or similar. Must be able to price rapidly from customers' drawings and prepare efficient layouts and tooling for all types machines, keep work flowing through shops and operate

progress and job costing systems. Shop trained, practical, keen man 25-35 will find excellent opening for rapid advancement. Staff appointment, initially 44 hour week. Starting salary £750 - £800 according to qualifications and experience with quick recognition of hard work and results. Write fullest details to: Box No. 1873, I.Prod.E., 10 Chesterfield Street, Mayfair, London, W.1.

**Senior and Junior Production Engineers, Standard Telephones and Cables, Transistor Division.** To assess and implement mass production techniques needed for semiconductor manufacture and to negotiate design and supply of equipment by sub-contractors. Kolster-Brandes (S.T.C. Associate) offer Graduate or Student a post as a **Method Study Engineer** on projects engaged with the manufacture of T.V. receivers and allied electronic products. Write to the Personnel Manager, Footscray, Sidcup, Kent, or Telephone FOOTscray 3333, extension 220 for further information. Informal evening or Saturday morning interviews can be arranged when we can explain how the Company assists with housing.

## EDUCATIONAL APPOINTMENTS

**The College of Technology, Bristol.**  
**Assistant Lecturers in the Mechanical Engineering Department.** The Governors invite applications for two new posts as Assistant Lecturers in the Mechanical Engineering Department to teach subjects, theoretical or practical, or a combination of these, in City and Guilds Courses in machine shop engineering, motor vehicle work, sheet metal work, and/or foundry work. Duties to commence as soon as possible. Appointments will be made on Burnham Scales (at present under revision) as Assistants Grade A or B depending on qualifications and experience. Grade B:

£682 10s. × £26 5s. per annum — £1,076 5s. Grade A: £498 15s. × £26 5s. per annum — £945. Additions for degree or equivalent, training, teaching and approved industrial experience. Application forms, returnable as soon as possible, and details from Registrar, College of Technology, Ashley Down, Bristol, 7.

### University of Hull.

**Artificer for Workshops.** Interesting constructional work on instruments and equipment for science departments. Scope for craftsman capable of precision work. Salary within the range £440 - £590 according to qualifications. Pension scheme. Apply in writing, enclosing references, to: the Registrar, The University, Hull.

## "PRODUCTION ENGINEERING AS A FUNCTION OF MANAGEMENT"

### EASTERN REGION CONFERENCE, NORWICH

24th - 25th September, 1959

Members and friends who intend to be present at the above Conference are asked to make application as quickly as possible. Full particulars of the programme, together with application forms, were circulated with the July and August Journal Supplements.



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